

## ABSTRACT

An optometric apparatus and an optometric method are provided, which allow a subject even with astigmatism to readily make eye examinations using a computer screen without requiring a special piece of equipment. This is achieved by the steps of acquiring subject's attributes and an orientation selected by the subject on an astigmatic axis determination chart displayed on the computer screen; displaying vision measurement charts in the acquired orientation and the orientation perpendicular thereto to acquire visual recognition limits selected by the subject; calculating far point distances based on the acquired visual recognition limits and the acquired subject's attributes; and calculating a refractive power based on the acquired orientation and the calculated two far point distances. The far point distance is calculated using a neural network that has been taught by a number of subjects in advance. The astigmatic axis determination chart has four groups of a plurality of parallel lines, each group having lines arranged in their respective orientation, and the vision measurement chart has a plurality of light and dark line images of different sizes, reducing the risk of presenting an erroneous refractive power.